

D3

[19]中华人民共和国专利局

[51]Int.Cl⁶

A43B 3/10



[12] 实用新型专利说明书

[21] ZL 专利号 95239852.4

[45]授权公告日 1997年1月15日

[11] 授权公告号 CN 2244835Y

[22]申请日 95.6.1 [24]颁证日 96.12.6
[73]专利权人 周崇伟
地址 225002江苏省扬州市西营9号
[72]设计人 周崇伟

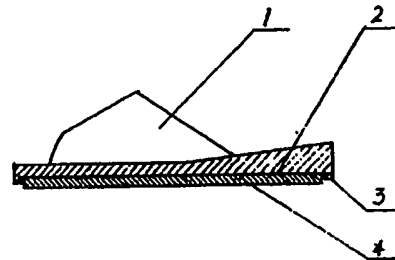
[21]申请号 95239852.4

权利要求书 1 页 说明书 2 页 附图页数 1 页

[54]实用新型名称 防滑、行走噪音低,可清洁地面的拖鞋

[57]摘要

防滑性强、行走噪音低、可清洁地面的拖鞋,属于鞋类,此种拖鞋上部是鞋拖,固定在拖鞋底上面,在拖鞋底同地面接触一面的凹面上,配合一层防滑性能强、耐磨性好的松软材料,穿着这种拖鞋,可以防滑,行走时噪音低,并可清洁地面杂物,特别适合在光滑的大理石、花岗岩、高档地砖上行走。



权 利 要 求 书

1、一种防滑、行走噪音低、可清洁地面的拖鞋，是用塑料或橡胶制成，其特征在于同地面接触的拖鞋底面，拖鞋底面由底凹台(2)和底边(3)构成，在底凹台(2)的平面上，配合一层用地毯制作的松软材料(4)，其周边形状同于底凹台(2)的周边形状，由拖鞋底面的一圈底边(3)形成的底平面，到底凹台(2)之间的深度，小于粘接在底凹台(2)上的一层松软材料(4)受力压缩后的厚度，拖鞋底面的一圈底边(3)的宽度尺寸相等。

2、根据权利要求1所述，防滑、行走噪音低。可清洁地面的拖鞋，其特征在于底凹台(2)的平面平行于底边(3)形成的平面。

3、根据权利要求1所述，防滑、行走噪音低，可清洁地面的拖鞋，其特征在于构成底边(3)的一个侧面，也就是和底凹台(2)平面相交的一个面，它同底凹台(2)平面交汇处夹角 $60^{\circ} - 85^{\circ}$ ，底边(3)的顶部宽度2—12mm。

说明书

防滑、行走噪音低、可清洁地面的拖鞋

本实用新型是一种具有很强的防滑功能，穿着时行走噪音低，并可以清洁地面的拖鞋。

目前拖鞋种类很多，各种拖鞋，对防滑功能都有考虑，这类拖鞋，在一般地面上行走是可以的，但如果在目前大量使用的地面材料，花岗石、大理石，高档地砖上行走，其防滑功能明显不够，对这类地面的清洁，用扫帚不适合，会将灰尘扬起，也清理不干净，一般用拖把、或人扒在地面上用抹布擦这样很麻烦，也辛苦；现代住宅，楼层多，拖鞋行走时产生的噪音也令人不愉快。

本实用新型的目的，就是要提供一种拖鞋，完全满足在各种硬度大，表面光滑的花岗岩，大理石等地面材料上行走时的防滑需要，还可以降低在家庭内部穿着拖鞋行走时的噪音，更适合现代生活节奏快，清洁地面省工，省力，方便的要求。

本实用新型的目的是这样实现的，在鞋拖(1)部位，可调节松紧，拖鞋底是用塑料或橡胶制成，其特征在于同地面接触的拖鞋底面，拖鞋底面由底凹台(2)和底边(3)构成，在底凹台(2)的平面上，用塑胶热合方式用胶水粘接的方法，配合一层地毯制作的松软材料(4)，其周边形状同于底凹台(2)的周边形状，由拖鞋底面的一圈底边(3)形成的底平面，到底凹台(2)之间的深度，小于粘接在底凹台(2)上的一层松软材料(4)受力压缩后的厚度，拖鞋底面的一圈底边(3)的宽度尺寸相等。同时底凹台(2)的平面平行于底边(3)形成的平面。还有构成底边(3)的一个侧面，也就是和底凹台(2)平面相交的一个面，它同底凹台(2)平面之间的夹角为 60° — 85° ，底边(3)的顶部宽度2—12mm。

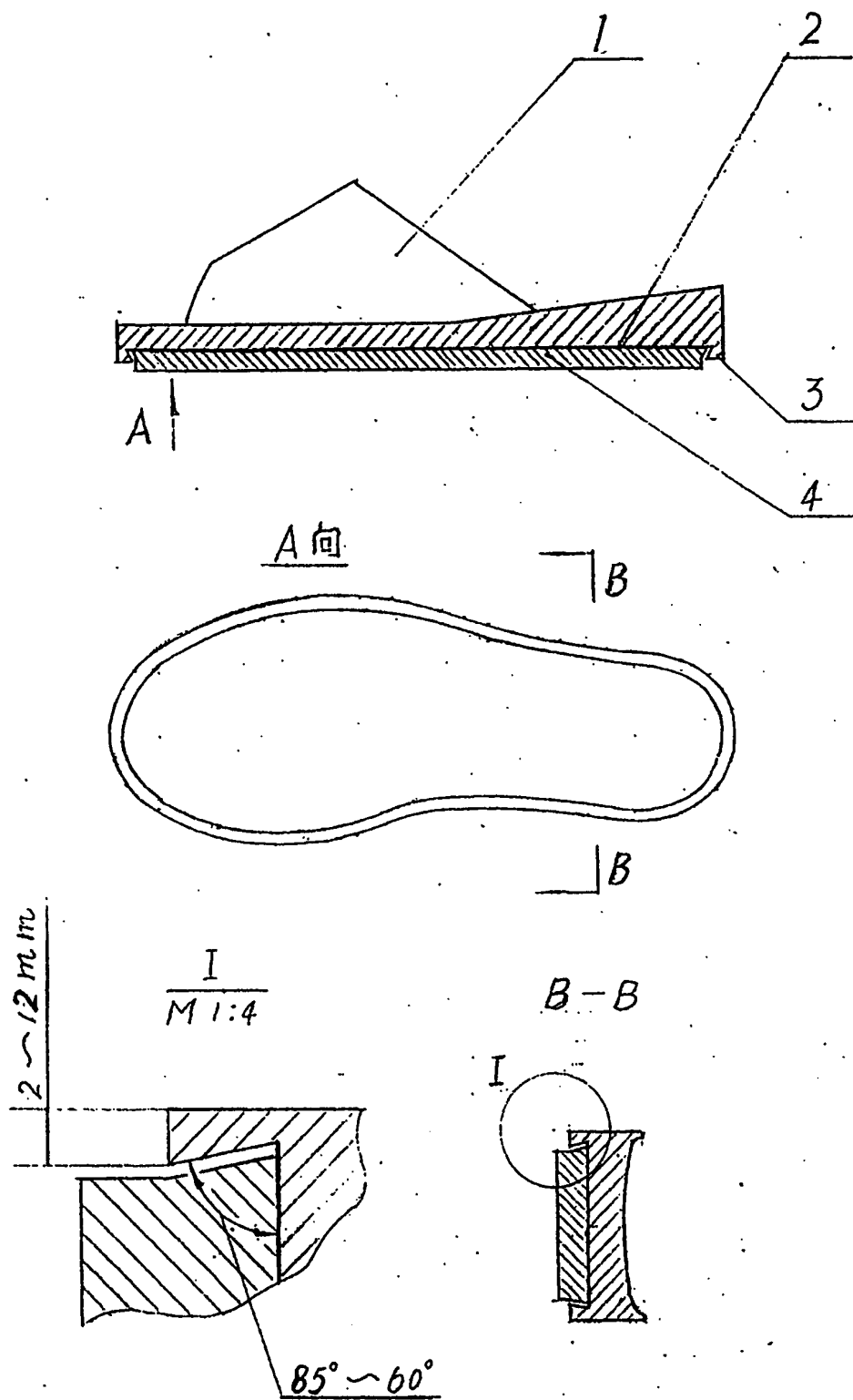
采用本实用新型的优点在于，在拖鞋的底面粘有一层松软料，这种材料，对地面的摩擦系数极大，另外拖鞋底部设计成平的，使鞋底面同地面的接触面积增大，这样的拖鞋穿着后，防滑功能特别强。当地面附着有污物时，可利用人体的重量，通过拖鞋底面的松软材料去擦，当地面有杂质时，也可用腿的力量带动拖鞋将杂质方便的清理，效果非常好，可及时的清洁地面，保持地面卫生整洁。因拖鞋的底面有一层松软材料，行走产生的噪音特别低，这种拖鞋穿着感觉也特别好，在硬质地面上行走的感觉就象在地毯上行走，特别适合在新式住宅内穿着。

下面结合附图，对实施本实用新型作进一步说明：

图中(1)拖鞋，(2)底凹台，(3)底边，(4)松软材料。

该拖鞋，近似一般拖鞋，拖鞋(1)部份，采用可调节松紧，大小的式样，这样适应面广一些。拖鞋底面用橡胶或塑料制作。其特征，是拖鞋同地面接触的底面，是由底凹台(2)和底边(3)构成，在底凹台(2)的平面上用塑胶热合，或用胶水粘接的方法，配合一层地毯制作的松软材料(4)，这层松软材料(4)的周边形成状同于底凹台(2)的周边形状，使这层材料均匀，平整的粘接在底凹台(2)内，由拖鞋底面的一圈底边(3)形成的底平面，到底凹台(2)深度，小于粘接在底凹台(2)内松软材料(4)受力压缩后的厚度，确保穿着时，主要由松软材料(4)同地面接触，为加大松软材料(4)同地面的接触面积，底凹台(2)的平面，平行于由拖鞋底面的一圈底边(3)形成的平面，当底凹台(2)平面上粘接一层松软材料(4)时，可使这层松软材料(4)同光滑地面基本保持平行。为保护这层松材料(4)不易脱落，构成底边(3)的一个侧面，也就是和底凹台(2)平面相交的一个面，它同底凹台(2)平面之间的夹角为 60° — 85° 底边(3)的顶部宽度2—12mm，底边(3)的剖面形状，在拖鞋底一圈的各个位置保持不变，有底边(3)保护，可保证松软材料(4)能牢固的粘接配合在底凹台(2)内。

说明书附图



CN 2244835Y

Title: An Anti-Slippery, Low-Noise During Walking, and Surface-Cleaning Slipper

Publication Date: January 15, 1997

Application Date: June 1, 1996

Abstract:

An anti-slippery, low-noise-during-walking, and surface-cleaning slipper which is a type of shoe. The top portion of the slipper is the vamp? which is affixed to the sole of the slipper. The sole of the slipper, on the sunken side which touches the ground, is combined with a layer of soft and spongy material. Such slipper is anti-slippery, low-noise when walking, and can also clean surfaces. It is particularly suitable for walking on smooth marble, granite, or high-end tile surfaces.

Claims:

1. An anti-slippery, low-noise-during-walking, and surface-cleaning slipper made of plastic or rubber, characterized as:

the side of the sole touching the ground comprises a sunken-platform (2) and an edge (3), wherein the flat portion of the sunken-platform (2) is combined with a soft and spongy material made of rug (4);

the shape of (4) is identical to that of sunken-platform (2);

the depth between the bottom of the edge (3) and sunken-platform (2) is less than the compressed thickness of the soft and spongy material (4) (which is adhered to the sunken-platform (2)); and

the width of the edge (3) is identical throughout the circumference.

2. The anti-slippery, low-noise-during-walking, and surface-cleaning slipper as claimed in claim 1, wherein the flat portion of the sunken-platform (2) is parallel to the surface formed by the edge (3).

3. The anti-slippery, low-noise-during-walking, and surface-cleaning slipper as claimed in claim 1, wherein the angle formed by the sunken-platform (2) and the edge (3) is 60°-85°; and the top of the edge (3) is 2 -12 mm wide.

Specification

The present utility model is an anti-slippery, low-noise-during-walking, and surface-cleaning slipper.

Currently, there are many different types of slippers available and all have considered the anti-slippery ability. Such slippers, while acceptable for walking on ordinary surfaces, obviously does not have sufficient anti-slippery ability when walking on widely used surfaces

such as granite, marble, or high-end tiles. For cleaning these types of surfaces, sweeping is unsuitable, because dust will fly all over, and the surfaces could not be completely cleaned. It is also burdensome to use mop or wipes. In addition, in modern high-rise buildings, the noise generated by slippers is unpleasant.

The objective of the present invention is to provide a type of slipper which has completely satisfactory anti-slippery performance on high hardness, smooth surfaces such as granite and marble. It also can reduce the noise generated when walking inside homes, and is suitable for the fast-paced modern life and meets the demand for easy surface cleaning, convenient and efficient.

The objective of the present invention is achieved as follows: the vamp (1) is adjustable; the sole of the slipper is made of plastic or rubber, characterized as: the side of the sole touching the ground comprises a sunken-platform (2) and an edge (3), wherein the flat portion of the sunken-platform (2) is combined with a soft and spongy material made of rug (4); the shape of (4) is identical to that of sunken-platform (2); the depth between the bottom of the edge (3) and sunken-platform (2) is less than the compressed thickness of the soft and spongy material (4) (which is adhered to the sunken-platform (2)); and the width of the edge (3) is identical throughout the circumference; the angle formed by the sunken-platform (2) and edge (3) is 60°-85°; and the top of the edge (3) is 2 -12 mm wide.

The advantage of the present model is that: at the bottom of the slipper there is a layer of soft and spongy material, such material has high friction coefficient; in addition, the bottom of the slipper is flat, consequently increasing the area that touches the ground. Hence the anti-slippery ability of such slippers is extremely good. If there is dirt on the floor, one can use his body weight, and clean the floor with the soft and spongy material. It provides timely and efficient cleaning. Such slipper is extremely comfortable and generates little noise. One feels as if walking on carpeted surface even when walking on hard surface. Such slipper is particularly suitable for new-style buildings.

Below is a more detailed explanation of the present model, with explanation of the figure.

In the Figure, (1) is vamp; (2) is sunken-platform, (3) is an edge, and (4) is a soft and spongy material.

The slipper of the present invention, like other slippers, has a vamp (1) which is adjustable. A variety of size and style of the vamp are suitable. The sole of the slipper is made of plastic or rubber, characterized as: the side of the sole touching the ground comprises a sunken-platform (2) and an edge (3), wherein the flat portion of the sunken-platform (2) is attached with a soft and spongy material made of rug (4), with either thermoplastic process or glue. The shape of (4) is identical to that of sunken-platform (2) so that the material is evenly adhere to the sunken-platform (2). The depth between the bottom of the edge (3) and sunken-platform (2) is less than the compressed thickness of the soft and spongy material (4) (which is

adhered to the sunken-platform (2)) to ensure that the soft and spongy material (4) touches the ground. To ensure that the soft and spongy material (4) does not come off easily, the angle formed by the sunken-platform (2) and bottom-edge (3) is 60° - 85° ; and the top of the bottom-edge (3) is 2 -12 mm wide. With the protection provided by the edge (3), the soft and spongy material (4) can firmly adhere to the sunken-platform (2).